

WEST Search History

DATE: Wednesday, September 03, 2003

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L7	((least or less) near4 (tap\$)) same ((more or most) near4 (tap\$)) same (equaliz\$3 or filter\$3) same (isi or (intersymbol near interference\$))	3	L7
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L5	((least or less) near4 (tap\$)) same ((more or most) near4 (tap\$)) same (equaliz\$3 or filter\$3) same ((reduc\$3 adj2 sequence\$) near2 estimat\$3)	1	L5
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L3	((least or less) near4 (significant near3 tap\$)) same ((more or most) near4 (significant near3 tap\$)) same (equaliz\$3 or filter\$3)	2	L3
L2	((least or less) near3 (significant near2 tap\$)) same ((more or most) near3 (significant near2 tap\$)) same (equaliz\$3 or filter\$3)	2	L2
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Results:Journal or Magazine = **JNL** Conference = **CNF** Standard = **STD****1 A reduced complexity partial sampling MMSE receiver for asynchronous MC-CDMA systems***Kunjie Wang; Pingping Zong; Bar-Ness, Y.;*Global Telecommunications Conference, 2001. GLOBECOM '01. IEEE ,
Volume: 2 , 25-29 Nov. 2001

Page(s): 728 -732 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(178 KB\)\]](#) **IEEE CNF**

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WEST

L7: Entry 1 of 3

File: USPT

Jun 11, 1996

DOCUMENT-IDENTIFIER: US 5526378 A

TITLE: Blind multipath correction for digital communication channel

Brief Summary Text (5):

Proposed ADTV systems use a conventional decision feedback equalizer (DFE) to correct the received signal for the effects of both multipath and intersymbol interference. For example, a proposed DFE includes a 128 tap filter, having complex taps, in which the complex coefficients of the taps are adjusted using a least mean square (LMS) algorithm. Such a filter provides ghost cancellation in a time displacement range of up to 25 sec, depending upon the magnitude of the ghost signal the larger the magnitude of the ghost, the larger the delay necessary to sufficiently attenuate it, and the closer in time it must be to the main signal. However, because ghost signals can occur at larger time displacements from the main signal than can be corrected by the proposed 128 tap FIR DFE filter, the use of such a filter will not sufficiently correct for the severity of multipath interference which is experienced in the communication channels. One possible solution is to include more taps in the DFE, but this is an expensive solution. Furthermore, the LMS algorithm converges slowly. The presence of a rapidly changing ghost signal (such as airplane flutter) will not be corrected by such a system, regardless of the number of taps in the FIR filter.

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L7: Entry 2 of 3

File: USPT

Mar 17, 1987

DOCUMENT-IDENTIFIER: US 4650930 A

TITLE: Adaptive equalizer

Detailed Description Text (6):

The operation of each equalizer tap is identical except for the control logic connections at the inputs 28, 29 and 30 which differ depending on the particular equalizer tap to which a set of past dependent logical control signals are applied as hereinafter described. Under control of these signals, each equalizer tap is responsible for correcting the residual signal or echo effects of ISI a predetermined number of bit times after the arrival of a main pulse representing a positive or a negative bit. According to the present circuit arrangement, the tap 25 corrects for the residual or echo one bit time after the main pulse is received whereas the tap 26 makes this correction two bit times after receiving the main pulse and the tap 27 makes a similar correction three bit times after receiving the main pulse. The order of significance of weighting produced by the various equalizer taps is such that the tap 25 is the most significant whereas the tap 27 is the least significant.